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The SCHOOL OF DENTISTRY

ANNOUNCEMENT

1912-1913

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BULLETIN

VOLUME 8 JULY 15, 1912 NUMBER 14

School of Dentistry

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PITTSBURGH, PA.

BOARD OF TRUSTEES

Class 1. Term Expires 1913

DATE ELECTED		
1890	Benjamin Thaw, A. B.	Pittsburgh
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1898	Josiah Copley Thaw, B.S.	Pittsburgh
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1908	Walter Riddle, Ph.D.	Pittsburgh
1909	Edward Vose Babcock	Pittsburgh
1910	John Henry Jones	Pittsburgh

Class 2. Term Expires 1914

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Class 3. Term Expires 1915

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1900	James Henry Lockhart, A.B.	Pittsburgh
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1903	Thomas Patterson, A.M.	Pittsburgh
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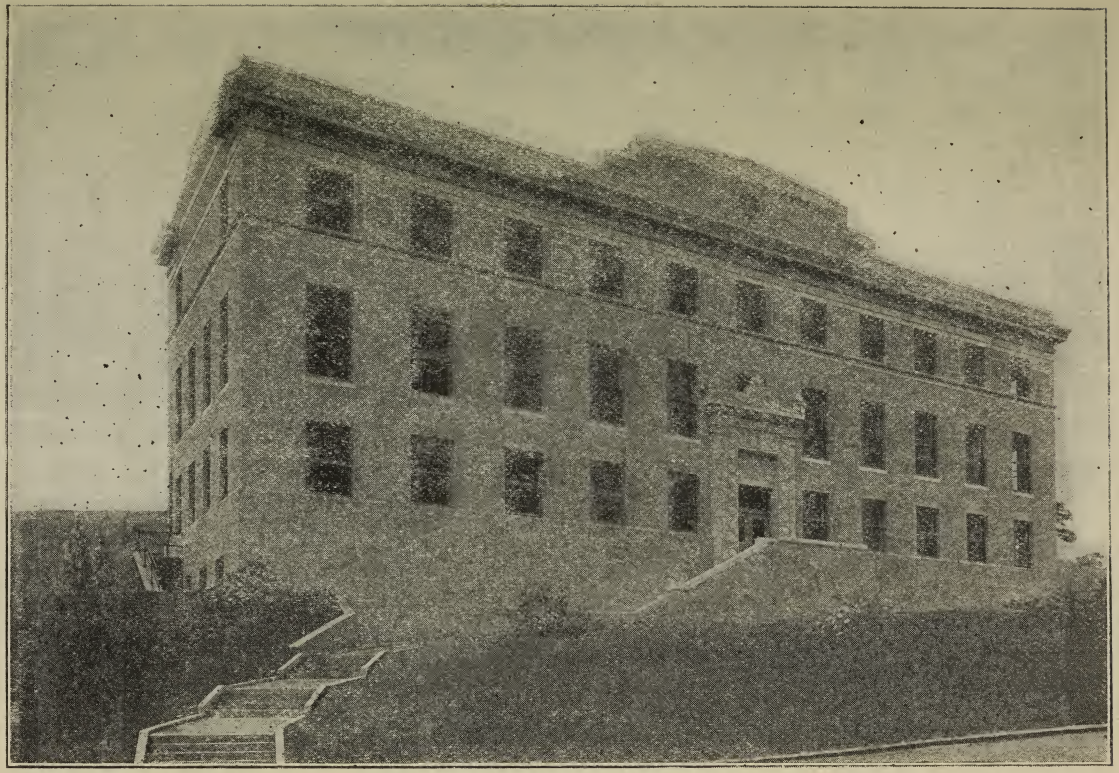
1910	George Elmer Shaw, LL.B.	Pittsburgh
1911	John Knox McClurkin, D.D.	Pittsburgh
1912	John Crawford Wallace, Pharm.D.	New Castle

Ex-Officio

Samuel Black McCormick, D.D., LL.D., Chancellor	Pittsburgh
Hon. William Addison Magee, Mayor	Pittsburgh



New School of Dentistry Building, University of Pittsburgh
University Campus—Dedicated June 18th, 1912

HISTORY

The University of Pittsburgh is the oldest institution of learning with one exception (The University of Nashville), in the United States, west of the Appalachian Mountain range. It came into being as the Pittsburgh Academy in the year 1786, and was formally incorporated by Act of Legislature in February, 1787. It was re-incorporated as the Western University of Pennsylvania in February, 1819. It has educated in whole or in part many thousands of the young men of Western Pennsylvania and adjacent States, and its alumni have filled many of the most distinguished offices in the gift of the Commonwealth and the nation.

The growth of the institution has been rapid in more recent years, and the University is today the most largely attended institution of learning in its class in the State of Pennsylvania, with the single exception of its sister institution—the University of Pennsylvania, located in Philadelphia.

SUMMARY OF STUDENTS

in the various schools of the University.

SESSION OF 1911-1912.

Graduate School	63
The College	333
School of Engineering	173
School of Mines	46
School of Education	450
School of Economics	342
School of Law	170
School of Medicine	190
School of Pharmacy	200
School of Dentistry	165
Extra-mural Courses for Teachers	354
Total number registered	2429
Deduct for names duplicated	28
Net Total	2457

CALENDAR FOR 1912-1913.

1912

September 3 ..... Tuesday—Infirmary opens.
October 1 ..... Tuesday—Winter Term begins.

Recess from December 23 to January 2, both inclusive.

1913

June 2 ..... Monday—Spring Term begins.
June 22 ..... Sunday—Baccalaureate Sermon.
June 24 ..... Tuesday—Dental Alumni Day.
June 25 ..... Wednesday—Commencement.

FACULTY

SAMUEL BLACK McCORMICK, D.D., LL.D.,
Chancellor.

H. EDMUND FRIESELL, D.D.S., Dean,
Professor of Operative and Clinical Dentistry.

OWEN LOVEJOY HERTIG, A.M., D.D.S.
Professor of Dental Pathology and Therapeutics and Operative Clinician.

HARRY STEWART HASLETT, D.D.S.
Professor of Prosthetic Dentistry, Anæsthesia and Extracting.

JOHN STEWART ASHBROOK, D.D.S.,
Professor of Dental Anatomy, Dental Medicine and Comparative Dental Anatomy.

STEWART LEROY McCURDY, A.M., M.D.,
Professor of Anatomy, Oral and General Surgery.

CLEMENT RUSSELL JONES, M.D.
Professor of General Pathology, Materia Medica and Therapeutics.

WILLIAM LINCOLN FICKES, D.D.S.,
Professor of Dental Ceramics, Dental History and Oral Hygiene.

FREDERICK AUGUSTUS RHODES, M.D.,
Professor of Physiology and Embryology.

ALBERT FLOYD JUDD, PHARM.D.,
Professor of Physics, Chemistry and Metallurgy.

FREDERICK CHARLES FRIESELL, D.D.S.
Professor of Histology and Bacteriology.

JOHN FLOCKER BIDDLE, D.D.S.,
Professor of Orthodontia and Radiography.

ROBERT ZUGSMITH, D.D.S.,
Lecturer on Crown and Bridge Work.

DEMONSTRATORS AND ASSISTANTS

JOHN FLOCKER BIDDLE, D.D.S.,
Operative Dentistry and Ceramics.

LOUIS BRENTON MOORE, D.D.S.,
Operative and Clinical Dentistry.

FRANK HOWARD MAGILL, D.D.S.,
Operative Dentistry.

J. HOWARD CRAWFORD, D.D.S.,
Prosthetic Dentistry.

JOHN GRAYSON FITZHUGH, D.D.S.,
Anæsthesia.

CECIL OLIVER BOOTH, D.D.S.,
Prosthetic Dentistry.

HARRY SPEER SMITH, D.D.S.,
Operative Dentistry.

LESLIE WADDILL, D.D.S.,
Dental Anatomy.

ANDREW MOMJAN MARTIN, D.D.S.,
Clinical Dentistry.

PATRICK VINCENT McPARLAND, D.D.S.,
Operative Dentistry.

HENRY WILLIAM HECKEL, D.D.S.,
Prosthetic Dentistry.

GAETANO LaROSA, D.D.S.,
Clinical Dentistry.

LUCIUS WALLACE OHL, D.D.S.,
Operative Technics.

ALBERT LESLIE EVANS, D.D.S.,
Operative and Prosthetic Technics.

COURTLAND STILLINGS JONES, D.D.S.,
Clinical Dentistry.

ARTHUR WILLIAM HEAPE, D.D.S.,
Prosthetic Dentistry.

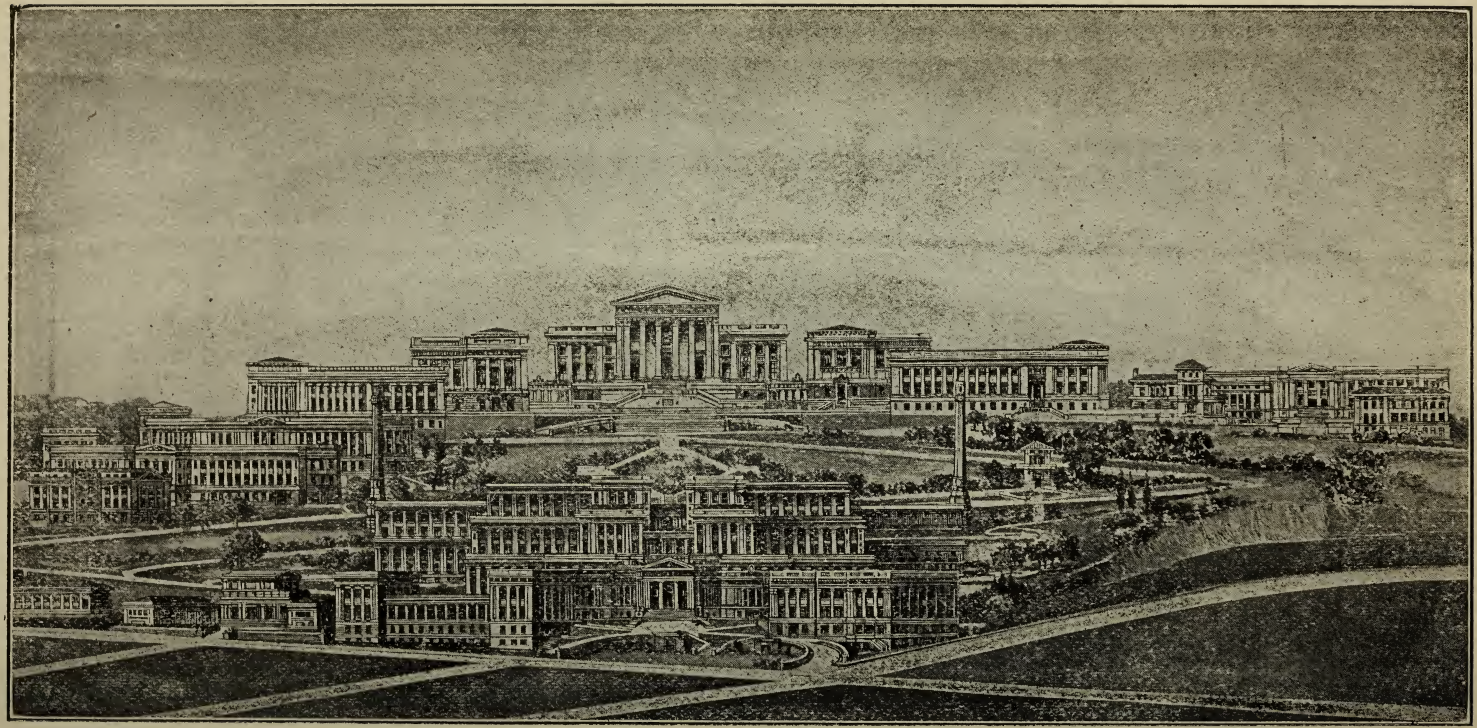
OLIVER CLARENCE NEELY, Jr., D.D.S.,
Clinical Dentistry.

OSCAR HENRY GOEDDEL, D.D.S.,
Clinical Dentistry.

PAULINE HORVITZ, D.D.S.,
Clinical Dentistry.

LUBA ROBIN GOLDSMITH, M.D.,
Quiz-Master in Physiology.

GEORGE WENZEL POLLOCK, M.D.,
Anatomy.



Proposed Group of Buildings of the University of Pittsburgh

GENERAL INFORMATION

A new building for the School of Dentistry has been erected on the University Campus during the past year, and was dedicated June 18th, 1912. It has the finest location for a dental school in the United States, is perfectly arranged for its special purposes, and will be thoroughly fitted out during the summer with the very latest and most improved equipment and appliances for the teaching of modern dentistry.

Being an integral part of a great University, one whose growth in the past five years has attracted the attention of all who are interested in higher education, the Dental School has all the support and advantages afforded by such an intimate relationship with a great educational institution, and its students and alumni have all the rights and privileges enjoyed by the students of any other school or department of the University.

The School of Dentistry of the University of Pittsburgh has long enjoyed an unexcelled reputation for the excellence of its course, the high average of practical ability of its graduates, and their almost perfect record, (98½%) before the various State Examining Boards of the country.

Modern technic work in all its details, is taught in operative and prosthetic dentistry, porcelain, crown and bridge, orthodontia and the gold inlay, and this is supplemented by practical experience on a wealth of clinical material. Over 12,000 patients were treated in the Infirmary during the term of 1911-12, and the new Infirmary will make possible the accommodation of a much larger number of patients.

Senior students who have passed the required grades and have otherwise complied with the rules of this School are recommended by the Faculty to the Board of Trustees of the University for their degree, the same being conferred by the Chancellor.

Diplomas are signed by the Faculty of Dentistry, the Chancellor, and the President and Secretary of the Board of Trustees.

A candidate for the degree of Doctor of Dental Surgery must have attended three full courses of lectures in some reputable dental college, the last one of which must be in this School. He must be twenty-one years of age. and of good moral character.

REQUIREMENTS FOR ADMISSION

Extracts from the Code of Rules of the National Association of Dental Faculties:

"The minimum preliminary educational requirement of colleges of this Association shall be the completion of an accredited high-school course, or its equivalent, the preliminary examination to be placed in the hands of any State or county superintendent of public instruction".

"No member of this Association shall give credit for a full course to students admitted later than ten days after the opening of the session, as published in the announcement".

"That students in attendance at colleges of this Association, to obtain credit for a full term, must be and remain in attendance until the close of the session".

Students presenting credentials from reputable schools, medical, scientific or literary, for work done in branches taught in this school, and covering these branches fully or in clearly definite part, will be credited for such work, provided that such credits shall amount to as much as one-half year.

COURSES OF INSTRUCTION

Freshman Year

*1. Operative Dentistry—Lectures and Technic Course.
2. Prosthetic Dentistry—Lectures and Laboratory.
6. Dental Anatomy—Lectures and Technic Course.
9. Anatomy.
10. Dissecting.
12. General Chemistry and Physics—Lectures and Laboratory.
13. Materia Medica.
17. Physiology and Embryology.
18. General Histology—Lectures and Laboratory.

Junior Year

1. Operative Dentistry—Lectures and Technic Course.
2. Crown and Bridge Work—Lectures and Technic Course.
4. Prosthetic Dentistry—Lectures and Laboratory.
7. Comparative Dental Anatomy.
9. Anatomy.
10. Dissecting.
11. Principles of Surgery.
12. Inorganic Chemistry—Lectures and Laboratory.
14. General Pathology and Therapeutics—Lectures and Laboratory.
17. Physiology.
18. Dental Histology—Lectures and Laboratory.
22. Oral Hygiene—Lectures and Clinic.

Senior Year

1. Operative Dentistry.
2. Crown and Bridge Work—Lectures and Technic Course.
3. Dental Pathology and Therapeutics.
5. Anaesthesia and Extracting.
8. Dental Medicine.
9. Oral Surgery.
12. Organic Chemistry—Lectures and Laboratory.
12. Metallurgy—Lectures and Laboratory.
13. Materia Medica.
15. Orthodontia—Lectures and Technic Course.
16. Dental Ceramics—Lectures and Technic Course.
19. Bacteriology—Lectures and Laboratory.
20. Electro-Therapeutics.
21. Dental Jurisprudence.
22. Oral Hygiene—Lectures and Clinic.
23. Dental History, Ethics and Economics.
1. Clinical Dentistry—Infirmary Practice.
3. Special Operative Clinics.

*Numbers refer to courses, details of which are given in subsequent pages.

1. Operative and Clinical Dentistry

PROFESSOR H. E. FRIESELL.

The principles and practice of Operative Dentistry are taught by the application of systematic procedures to operations in classes, so that a correct judgment may be formed as to their application in particular operations.

The same method of instruction will be applied by clinical instructors, the classes being divided into sections.

Modern and accepted methods will be exemplified.

INSTRUMENTS.—Each student, before beginning his work, is required to procure the instruments necessary for his use, a list of which will be furnished. Each student is required to have a dental engine when taking up Infirmary work.

All materials used upon patients, including medicines, rubber dam, etc., furnished by the School.

Operative Technics

PROFESSOR FRIESELL, DR. SMITH, DR. OHL.

FIRST YEAR — 1 Lecture, 3 hours Laboratory

The object of this course is to familiarize the student with the organs to be operated upon, together with the principles that underlie all operations upon the teeth, and to provide a systematic course in manual training.

Students will have before them teeth of each denomination, so that right conceptions of form and the relations of the tissues may be studied.

Systematic nomenclature will be taught.

Cutting of sections of each tooth will be practiced.

The surface outlines, markings, and the comparative size and location of the internal cavities of each tooth will be considered.

PROFESSOR FRIESELL, DR. OHL, DR. EVANS.

SECOND YEAR — 2 Lectures, 12 hours Laboratory

This course includes: Sectioning of teeth through various surfaces in order to gain a knowledge of the inception and progress of caries; the preparation of cavities of each class in enlarged plaster models; preparing cavities in extracted teeth and celluloid tooth forms, and filling the same with gold; the use of the various forms of gold and other filling materials; opening, enlarging and filling root canals; bleaching, scaling and as far as possible all operative procedures in detail; instruments and instrumentation.

Professor Friesell.

Third Year — 2 Lectures, 30 hours Clinic

A review of the technical procedures taught in the preceding years will be followed by a course of lectures and recitations covering the whole field of the principles and practice of Operative Dentistry.

The Operative Clinic is open daily from ten to four o'clock throughout the year, except during the months of July and August, and is in charge of the professor and demonstrators of operative dentistry. The principles learned in the technic course are carried out in the infirmary, and this course is made as much like an actual practice as possible.

2. Crown and Bridge Work

Dr. Zugsmith.

Second Year — 1 Lecture, 3 hours Laboratory

A complete course in crown work, including the preparation of roots and the making of all the acceptable styles of crowns, is covered.

Third Year — 1 Lecture, 3 hours Laboratory

Bridge work, both fixed and removable; the repairing of crowns and bridges, and the whole subject of gold inlays are treated in the Senior year. Baked crowns and porcelain bridges are covered in the department of Ceramics.

3. Dental Pathology and Therapeutics

Professor Hertig.

Third Year — 1 Lecture, 2 hours Clinic

Lectures from this chair will comprise instruction in the principles of dental pathology, indication and elements of disease, pathological dentition, pathological eruptions, dental caries and its results, odontalgia, periodontitis, alveolar abscess, necrosis, pyorrhoea alveolaris, and all the various diseases of the teeth and associate parts, with the therapeutic agents and materials used in the treatment and correction of the same.

Private operative clinics, covering every practical operation, will be given before the Senior class in sections.

4. Prosthetic Dentistry

Professor Haslett, Dr. Crawford, Dr. Booth, Dr. Heckel, Dr. Heape.

First Year — 1 Lecture, 12 hours Laboratory and Demonstration

The course will cover Prosthetic Technics, followed by the preparation of the mouth for dentures, impressions, methods of constructing various bases, the treatment of metals and alloys which may be of value in den-

tistry, and the study of temperaments in their relation to the teeth and their arrangement.

SECOND YEAR — 1 Lecture, 12 hours Clinic

Continuous gum work, artificial vela, methods of making and adjusting appliances for fracture of the maxillae, and other practical work in the clinic.

5. Anæsthesia and Extracting

PROFESSOR HASLETT, DR. FITZHUGH.

THIRD YEAR — 1 Lecture and Demonstration

Anaesthesia will be taught by lectures, and by demonstrations in the infirmary; will cover the whole field of local and general anaesthetics, the use, complications and dangers of each, and the means of preventing and treating accidents arising from their use.

Particular attention will be given to difficult cases of extraction, impacted teeth, etc., and the treatment of hemorrhage and such other accidents as may accompany extracting. Each student will be required to administer anaesthetics, and to extract, under the personal supervision of the teachers of this subject.

6. Dental Anatomy

PROFESSOR ASHBROOK AND DR. WADDILL.

FIRST YEAR — 1 Lecture, 2 hours Laboratory

This course will consist of the drawing, modeling and carving of the various teeth, and the study of their surfaces, ridges, fossae, grooves, etc.

Systematic nomenclature; the importance of the proper contact of approximating teeth; normal occlusion, and the relation of the teeth to the soft tissues receive thorough consideration.

7. Comparative Dental Anatomy

PROFESSOR ASHBROOK.

SECOND YEAR — 1 Lecture

In this division of general anatomy the student will be taught comparative anatomy by the study of animal life, beginning with the lowest forms, and leading up to the highest in regular gradation; taking the teeth *seriatim* from the lowest types, and showing their progressive evolution from simple to complex forms, demonstrated by skulls, models, charts and stereopticon.

This subject is a strong factor in emphasizing the importance of the law of occlusion.

8. Dental Medicine

Professor Ashbrook.

Third Year — 1 Lecture

This course will cover fully all remedial agents that belong properly to the special field of dental medicine, and will discuss briefly the most important general remedies that may be available in dental diseases and emergencies.

9. Anatomy

Professor McCurdy and Dr. Pollock.

First Year — 1 Lecture, 1 Quiz

Instruction in this department consists of lectures and demonstrations of the anatomy of the entire body, special lectures being given upon regions of the face, head and neck.

The course is divided, osteology and syndesmology being treated previous to the holidays, and the muscles and blood vessels after the holidays.

Second Year — 1 Lecture

Surgical and Topographical Anatomy of face receives special attention, as the study of the various parts is considered.

Ante-holiday, Nervous System; Post-holiday, Organs of Special Sense and Viscera.

10. Practical Anatomy

Professor McCurdy, Dr. Pollock.

First and Second Years — 2 hours daily during period of dissecting

Students are required to make a complete dissection during the Freshman and Junior years.

To facilitate the study of Anatomy, boxes containing a half skeleton are given the student upon a deposit of $5.00, returnable upon return of box and the contents as it was received.

11. General and Oral Surgery

Professor McCurdy.

Second Year — 1 Lecture, 1 Quiz

The Junior course covers: general principles, including repair; acute infections and the results; surgical fevers; erysipelas; shock; general diagnosis; diseases of the vascular systems; asepsis and antisepsis; anaesthetics, and principles in operations, wounds and emergencies.

THIRD YEAR 1 Lecture

Includes: Diseases of the structures of the oral cavity, the antrum and other cavities; diseases and injuries of the gums, alveolar process and tongue; diseases, injuries and neuroses of the face; congenital defects of the face and mouth; diseases of bone; tuberculosis; venereal diseases; diseases of the salivary glands; neuralgia; tumors; ankylosis; fractures; dislocations; general conditions producing oral manifestations, and oral diseases producing general symptoms; plastic surgery, and prosthesis.

Operations in hospitals and clinical cases at the School will give the student an opportunity to make a practical study of cases.

A course in Physical Diagnosis is given in order that graduates of this School may be able to make an intelligent examination of the heart and lungs preparatory to the administration of an anæsthetic.

12. Chemistry

PROFESSOR JUDD

The department of Chemistry includes general physics, general and inorganic chemistry, metallurgy, organic chemistry and chemistry of anæsthetics. The teaching is by lectures, recitations and laboratory practice, continuous throughout three years.

General Physics

FIRST YEAR 3 hours

Properties of matter, theory of constitution of matter, states of matter, physical measurements, metric system of measures, volume, mass and density, specific gravity, force and equilibrium, hydraulics, hydrostatics and pneumatics, motion, velocity and acceleration, composition and resolution of forces, Newton's laws, gravitation, work, energy and power, machines, temperature and thermometry, specific heat, effects of heat, sound, radiant energy, light, electrostatics, electro-kinetics, sources of electric current, properties of electric current, uses of electric currents, dental applications of electricity.

General and Inorganic Chemistry

SECOND YEAR 3 hours

Lectures, recitations and laboratory practice. The course is begun with a brief review of the history of the subject, the scope of the science, with its relation to the other physical sciences and to dentistry, with a consideration of the notation and nomenclature employed in modern chemistry. When this preliminary work has been accomplished, the im-

portant elementary substances are taken up in order of their natural classification, and separately lectured upon. Contemporaneous with the lectures, every member of the class receives laboratory practice, which includes the preparation (when possible) of each element in the free state, the study of its leading characters, and of its characteristic reactions. When the elements have all received consideration in this manner the class is given a brief drill in qualitative analysis, with practice in the identification of inorganic chemical substances in simple mixtures.

Metallurgy

THIRD YEAR — 3 hours

Lectures, recitations and laboratory practice. The work is carried on with lectures and recitations from lessons assigned from the text-book. After the general principles of the subject have been reviewed, the manufacture and properties of amalgams and alloys receive consideration, followed by a study of the individual metals and their uses and application in dentistry, with laboratory practice in identification of metals, and in the manufacture and assay of alloys and amalgams.

Organic Chemistry and Chemistry of Anæsthetics.

Lectures, rectitations and laboratory practice. The lectures and recitations will be devoted to a consideration of the general principles of the chemistry of the Carbon Compounds, their classification and uses. In the laboratory the student is expected to prepare a series of the more important members, and to study their principal reactions and means of identification.

13. Materia Medica

PROFESSOR JONES

FIRST YEAR — 1 Lecture

During the early portion of the Freshman year special attention will be given to the definition of words and phrases, their derivation and signification with reference to their use in Materia Medica, Therapeutics and Pharmacy. After this, the most important drugs in general use will be taken up and considered separately, with reference to their physiological effects, doses, methods of administration, their toxic effects, antidotes, etc. The same method of teaching is continued through the course.

THIRD YEAR — 1 Lecture

A review of the first year's work in Materia Medica and Therapeutics, and a fuller consideration of these subjects as applied to dentistry.

14. General Pathology and Therapeutics

Professor Jones

Second Year — 1 Lecture, 1 hour Laboratory

A thorough knowledge of General Pathology is necessary before the more advanced branches or special branches can be properly understood. Hence the object of teaching in this department is to unfold to the student the fundamental principles of the subject, and bring them within his comprehension; also to increase his interest in the study of the subject, to obtain a knowledge of the inception and course of pathological processes, their changes and effects upon the organism as manifested in abnormal conditions.

15. Orthodontia

Professor Biddle

Third Year — 1 Lecture and Demonstration

Normal occlusion, the etiology and classification of malocclusion, physiology of tooth movement, character of tissues involved, modern methods and appliances for the correction of malposed teeth, and correction as related to the harmony of the facial lines, facial art, are all included in the instruction in this branch.

The technical course consists of free-hand soldering, soldering and adjusting combination appliances, and making of accurate models. The work is illustrated by steropticon charts and models, and demonstrated by clinical cases.

16. Dental Ceramics

Professor Fickes and Dr. Biddle

Third Year — 1 Lecture, 2 hours Laboratory

Instruction in this course will consist of one lecture each week, supplemented by demonstrations, in detail, of practical, operative and prosthetic porcelain work.

The more important subjects are: The history and development of the porcelain art; the composition, characteristics and manipulation of porcelain compounds; the source of heat employed; the use and care of furnaces, and descriptions and demonstrations of all the more important methods of inlay, crown and bridge and continuous gum work.

17. Physiology and Embryology

Professor Rhodes and Dr. Goldsmith

First Year — 1 Lecture, 1 Quiz

The teaching in this branch will consist of lectures, quizzes and practical demonstrations.

In the lectures it will be the aim of the teaching to continually keep in mind the fact that the normal condition must be understood before the abnormal can be known. The student will be taught, as far as possible, to form his conclusions from facts of personal observation, and from those given to him by the demonstrations of the professor.

Each and every structure of the body will be shown, its function and its relation to every other structure. Special attention will be given to the subjects of blood, circulation, digestion and the nervous system, where these are so closely identified with important laws of interest to the dental student.

The lectures will be supplemented by quizzes, and each student will be required to pass an examination in all subjects which have been taught.

SECOND YEAR — 1 Lecture, 1 Quiz

Muscle and nerve physiology, production of the voice, central nervous system, brain, spinal cord, reproductive organs, embryology and development are considered.

18. Histology

PROFESSOR F. C. FRIESELL

FIRST YEAR — 1 Lecture and Laboratory

The course in Histology consists of a systematic presentation of the subject of the minute anatomy of the various parts of the body, partly by lectures, and more especially by the practical study of actual specimens under the microscope. The methods of preparation of microscopical specimens are presented and practiced in the laboratory.

The work in microscopy is preparatory to the subject of Histology, and consists of a course of lectures upon the construction and manipulation of the compound microscope, with practice by the student in preparation of temporary and permanent mounts, including the technique of embedding, sectioning and staining both of hard and soft tissues.

The laboratory is supplied with microscopes and all the apparatus necessary to render the student familiar with the subject of microscopical technique, as well as the normal histology of the various tissues and organs of the body. Students are required to mount at least twenty-five slides.

Dental Histology

PROFESSOR F. C. FRIESELL

SECOND YEAR — 1 Lecture and Laboratory

Lectures on Dental Histology embrace the origin, development, tissues and the functions of the teeth, and the development of the superior and

inferior maxillary bones, the dental tissues—enamel, dentine, cementum, peridental membrane, periosteum, the tooth pulp, the other soft tissues of the mouth, and a short course in embryology of the dental structures.

19. Bacteriology

PROFESSOR F. C. FRIESELL

THIRD YEAR — 1 Lecture and Laboratory, half of First Semester

a. The student is taught the principles of General Bacteriology; a knowledge of the preparation of the media for cultivating bacteria; the morphological, biological and physiological attributes.

b. In oral bacteriology, the subjects of morphology and biology of the micro-organisms of the teeth are carefully considered together with their relation to caries of the teeth and oral diseases.

Pathological and Bacteriological Laboratory

PROFESSOR F. C. FRIESELL

THIRD YEAR — 1 hour, half of First Semester

Laboratory work in pathology and bacteriology is carried on. Slides of pathological conditions, including tumors, diseases of the liver, kidneys, lungs, etc., are prepared.

The bacteriological laboratory is equipped with high-power microscopes containing oil-immersion lens, Abbe condenser and iris-diaphragm. It also contains incubator, dry and moist sterilizers, and every variety of apparatus known to modern bacteriology.

Students are taught rapid staining and mounting of sections, principles of sterilization, method of isolating bacteria, technique of making plates, study of colonies, staining, mounting and examination of the more common varieties of bacteria, with special reference to bacteria found in the mouth. Opsonins, anti-toxins, Widal test for typhoid fever and tests for efficiency of various germicides and antiseptics are practically demonstrated.

20. Electricity—X-Ray

PROFESSOR BIDDLE

THIRD YEAR — 1 Lecture, part of Second Semester

X-Ray and Electricity, as applied to dentistry, have been added to the list of branches taught in the School. The students will be taught the uses of radiography, and will be given instruction in preparing and developing plates after they are made. The course will cover instruction in electrophysics, electrophysiology and electrotherapeutics, and the control of electricity as a motor power.

21. Dental Jurisprudence

PROFESSOR FICKES

THIRD YEAR — 1 Lecture, part of Second Semester

The course of lectures in this branch will cover the subjects of dental witnesses, rights and liabilities of dental practitioners, including the law of crimes, negligence and contracts, as applied to the practice of the profession, together with a discussion of the history of dental legislation in general, and of the statutes in force in Pennsylvania regulating the practice of dentistry.

The aim will be to furnish a correct idea of the general principles of the law as applied to the practice of dentistry; and to present the subject with a view to making it of practical worth. Students will be required to keep concise, but complete, notes of the lectures.

22. Oral Hygiene

PROFESSOR FICKES

Oral Hygiene embraces a knowledge of the factors and conditions which produce or assist in producing disease, local or general, which arise from perverted function or from unsanitary conditions in the oral cavity, as well as the best means of preventing such diseases.

This course will consist of lectures on all of the most important subjects relating to the prevention of diseases of the oral cavity, and of conditions in the oral cavity which are unfavorable to the general health.

23. Dental History, Economics and Ethics

PROFESSOR FICKES

The course in Dental History will cover the subject from the earliest times to the present; and will include biographies of noted and successful dentists and the factors which led to their success, as well as the record of the development of the art and science of dentistry.

The course in Dental Economics will embrace the business requirements for success in practice, including selection of a location, arrangement of an office, relations with patients, personal appearance and conduct, general business methods, fees, bookkeeping and records, self-development, etc.

Ethics primarily means conduct considered with reference to its good or bad results to self or to others. The course in Ethics considers, therefore, the dealing of the dentist with patients and the profession; consultations; the necessity of moral, mental and physical cleanliness and honesty in his dealings with his fellowman; unprofessional conduct, etc.

TEXT-BOOKS

Freshman Year—Anatomy, *Gray* or *Cunningham;* Dental Anatomy, *Black;* Physiology, *Stewart* or *Kirkes;* Materia Medica and Therapeutics, *Stevens;* Dental Prosthesis, *Wilson;* Chemistry, *Bartley;* Dictionary, *Dorland* or *Gould;* Histology, *Radasch* or *Bailey.*

Junior Year—Operative Dentistry, *Black;* Oral Surgery, *McCurdy;* Bacteriology, *Pitfield;* Metallurgy, *Hodgen;* Pathology, *McConnell;* Dental Histology, *Noyes.*

Senior Year—Dental Pathology and Therapeutics, *Burchard;* Dental Medicine, *Prinz* or *Buckley;* Orthodontia, *Case.*

FEES

Matriculation (paid but once), $5.00. Term ticket, each year, $160.00. Breakage Fee, $2.00. Dissection Fees, Freshman Year, $10.00; Junior Year, $5.00. Graduation and Diploma, $15.00.

The amount charged for tuition includes an Athletic Fee, which entitles students to free admission to the athletic events under the control of the General Athletic Committee of the University.

A reduction of $5.00 on the Tuition Fee will be made, provided all fees are paid at the beginning of the term.

Fees are payable in two installments; half on or before October 15th, and no student is formally entered until this fee is paid; the remainder on or before January 15th. No student is permitted to enter upon final examinations at the close of the term without a ticket of admittance, which is evidence that all fees are paid, and that he has passed all previous examinations. Graduation fee is returnable to those who fail to pass.

According to the regulations of the School of Dentistry no other fees are returnable. Should the student discontinue his studies, any fee or fees paid will hold good for a subsequent course, but they are not transferable.

Note.—The School of Dentistry is a member of the National Association of Dental Faculties, and conforms to all its regulations.

EXAMINATIONS

Examinations are held in the various branches taught, at stated periods during the term and at the close of the year.

The marking for examination is based on a scale of 100. Students, to pass their class examinations, must attain an average grade of at least 75 and must not fall below 60 in any study.

Students of the Freshman and Junior classes falling below 60 in any study will be given the privilege of a second examination before the

opening of the next winter term. A student may, however, be admitted to the class in advance if he be conditioned upon not more than two branches; but he must, during the term, pass examination in these branches before he can be examined on the studies of the year upon which he has entered. No senior student will be permitted to enter the second semester with any conditions.

GRADUATION

Candidates for the degree of Doctor of Dental Surgery must have attended three full courses of lectures in a recognized dental college, or its equivalent (as required by the rules of the National Association of Dental Faculties), the last of which must have been in this institution. They must be twenty-one years of age and of good moral character, and must bring before the professors of Operative and Prosthetic Dentistry such evidence of proficiency in practical dentistry as they may require.

REGULAR TERM

The regular winter term begins September 30, 1912, and continues for eight months, or until June, 1913.

STUDENTS MUST MATRICULATE BEFORE OCTOBER 14TH TO OBTAIN CREDIT FOR THE TERM, EXCEPT IN CASE OF SICKNESS. PHYSICIAN'S CERTIFICATE, 10 DAYS ALLOWED.

Students who fail to enter their names on the matriculation book or make application for admission before October 14th may enter upon the payment of $75.00. No time credit can be given upon such attendance.

FALL AND SPRING TERMS

The Infirmary is open from September 1st to July 1st, of the following year. During this time patients in abundance are furnished the students for practical work. During the Spring and Fall terms, the Senior and Junior classes have an opportunity to complete their requirements in practical work. During these courses daily clinics are given by the Professors or Demonstrators.

NOTES

Seats and laboratory privileges are assigned in order of matriculation.

The Faculty will be glad to advise parents, when so desired, of the progress and general conduct of students.

No student will be permitted to enter upon the work of a given year

until he has supplied himself with the instruments and text-books specified for that year. Instrument lists are furnished at the school.

Each student is required to supply himself with the specified outfit for laboratory work in histology and bacteriology.

Grades and cards are withheld from students who have not complied with the rules of the School.

For catalog and further information address

Dr. H. E. Friesell, Dean,
School of Dentistry, Grant Boulevard,
Pittsburgh, Pa.

REGISTER OF STUDENTS

POST GRADUATE

Dewar, Herbert.....Elizabeth, Pa.

SENIOR CLASS

Black, Robert Bingham.....Slippery Rock
Blair, Henry Atwell.....Pittsburgh
Boarts, Carl Clifford.....Kittanning
Brown, Samuel Conger.....Pittsburgh
Bryen, Roderick Robert.....Duquesne
Calhoun, Samuel Ernest.....Apollo
Carlisle, Paul Nathan.....Pittsburgh
Christy, Joseph Augustus.....Irwin
Crumrine, Wilmot Montgomery.....Columbus, O.
Dryden, Charles Avery.....Carrick
Feick, Walter Conrad.....Avalon
Feightner, Ross Richard.....Greensburg
Frederick, William Alonzo.....Parnassus
Galvin, Ralph Maurice.....New Brighton
Gamble, Harold Walter.....McKeesport
Gernon, James D.....Blossburg
Hinchman, Walter Wright.....McKeesport
Huffman, Sherman O.....Duquesne
Hunker, George Edgar.....Hunker
Jameson, Charles McKee.....Butler
Lindsey, John Vernon.....Johnstown
Mandelstein, Michael Robert.....South Fork
Markell, Lewis Stanley.....Monongahela
Markowitz, Sadie Nell.....Pittsburgh
Morgan, Clarence Mishael.....Cadiz, O.
McGiffin, William MacIlwaine.....Pittsburgh
McKenzie, Howard Alexander.....Houtzdale
Pidgeon, William Cuthbert.....Houtzdale
Pipes, Charles Benton.....Washington
Pollock, Percy Digby.....Charleroi
Pollum, Bert Walter.....DuBois
Price, Kelly Holmes.....Uhrichsville, O.
Prugh, John Hassler, Jr.....Pittsburgh
Quailey, Charles Bernard.....Dennison, O.
Reese, James Alonzo.....Waynesburg
Shryock, Edward C.....Wilmore
Sorgen, Carl Godfrey.....Kenton, O.

Stockdale, John Thomas.....Nettle Hill
Tibbott, John Alton.....Wilkinsburg
Tinsley, Raymond Curtis.....Pittsburgh
Tinsley, Robert Bowman.....Pittsburgh
Tyler, Francis Daniel.....Jamestown, N. Y.
Weger, Elmer.....Pittsburgh
White, Raymond Parks.....Pittsburgh

JUNIOR CLASS

Baiocchini, Guiseppe.....Pittsburgh
Bates, Hurleigh Hile.....Avalon
Bell, Zadoc Eugene.....Pittsburgh
Bonine, Harry Ellwood.....Duquesne
Broadwater, Melvin Frost.....Grantville, Md.
Calvert, William Andrews.....Greenville
Church, Clarence Benjamin.....Littleton, W. Va.
Clark, James Francis.....Houtzdale
Coulson, William Emery.....Washington
Dice, Roy Edward.....Pittsburgh
Dickson, William DeLoss.....Oakdale
Doerr, Clarence Fillmore.....Keister
Drury, Andrew Carl.....Greensburg
Edwards, Clarence James.....Pittsburgh
French, Arthur Bowman.....Braddock
Fonda, Hurst David.....Sharon Springs, N. Y.
Gardner, Abram Elias.....Pittsburgh
Gehlert, George Amerose.....Duquesne
Kohanik, Eugenia.....Ansonia, Conn.
Kunkle, Arthur Alfred.....Greensburg
Lewis, Allison Luther.....Shippenville
Linn, Ralph von Dannenberg.....Salem, O.
Lindstrom, Frederick F.....Jamestown, N. Y.
Litman, John Blaine.....Hannibal, O.
Ludwig, Fred Carl.....Pittsburgh
MacPherson, John Henry.....McKeesport
Madden, John R.....Mt. Pleasant
Midden, Herman Frederick.....Cynthiana, Ky.
Moore, Charles Albert.....Pittsburgh
Moss, Joseph William.....Homestead
McCleary, Walter Dodds.....Avalon
McKee, Henry Robinson.....Pittsburgh
McKee, Wilbert.....Pitcairn
Oleon, Fannie Louise.....Pittsburgh

Patterson, William Abell.....New Castle
Philippbar, Joseph Warren.....Pittsburgh
Phillips, Willis Glenn.....Youngsville
Pilgram, Martin William.....Sharpsburg
Plank, Thomas Zwingli.....Pittsburgh
Radin, Maurice .....Pittsburgh
Ruben, Bessie .....Pittsburgh
Sampson, James Blair.....McKeesport
Stathers, George Warne.....Monongahela
Tackney, Owen Francis.....Throop
Taylor, Paul Cearing.....Emlenton
Teresi, Philip .....Pittsburgh
Williams, Charles Bruce, Jr.....Winston, Va.
Williams, Ross Palmer.....Pittsburgh

FRESHMAN CLASS

Allan, Alex Malcolm.....Turtle Creek
Alvino, Ernest Eugene.....Pittsburgh
Astry, John W.....Salem, O.
Beacham, Earle DeWitt.....Braddock
Beck, Francis Kenneth.....Crafton
Biddle, Perry Arney.....New Castle
Birkett, Lilian Ellen.....East Liverpool, O
Bock, Howard .....Sharpsburg
Boss, William Orlo .....Townville
Bracken, Edward Spear, Jr.....McKeesport
Briggs, Charles Culver.....Newton Hamilton
Buchanan, Benjamin Kamerer.....Harrisville
Buchanan, William Gaylord.....Harrisville
Campbell, Earl Francis Bennison.....New Kensington
Campbell, Hubert B. S.....New Castle
Carroll, Francis Joseph.....Monongahela
Connelly, George Nox McCain.....Pittsburgh
Coombe, Benjamin Clyde.....Mingo Junction, O.
Custer, Russell Phillip.....Stoyestown
Farmer, William Cuthbert.....Washington, D. C.
Hartman, Isaac Hill.....Derry
Haslett, W. Clyde.....Pittsburgh
Haslett, Oscar Osbourne.....Charleroi
Hayes, Carl Wallace.....Butler
Henderson, Howard Brice.....Kittanning
Hoffman, Walter Harry.....Jeannette
Horrocks, James .....Wilmerding

Hunker, Earl William.....Hunker
Jackson, William Fulton.....New Castle
James, Clarence B.....Charleroi
Jendrzeski Leo Joseph.....Carnegie
Keyser, Howard Franklin.....Duquesne
Lacock, William Johnston.....Pittsburgh
Leahy, William Joseph.....Pittsburgh
Levin, Benjamin .....Pittsburgh
Long, George Leonard.....Greensburg
Loper, William Rufus.....Wheeling, W. Va.
Lytle, Howard Rockwell.....Wilkinsburg
Manon, Hervey Clinton.....Carothers
Matthews, Phillip Emmett.....McKeesport
Mazer, Maurice .....Millvale
Meikle, Robert Dudley.....Turtle Creek
Miller, Carl Walter.....McKeesport
Moore, Otis G.....Knox
Morris, Cary Bledsoe.....Covesville, Va.
McCaw, Homer Wiley.....McKeesport
McCombs, Chalmer .....Youngstown, O.
McConahy, John Glass.....New Wilmington
McKnight, Harry Thomas.....Pittsburgh
O'Donnell, Joseph B.....Altoona
Oleon, William .....Pittsburgh
Payne, Clyde Thomas.....Wilmerding
Peters, Frederick Carl.....North Warren
Phillips, Arthur William.....Emlenton
Reid, Ronald MacDonald.....East Pittsburgh
Retzer, Floyd McConnell.....Hickory
Rink, Howard Cameron.....Hoboken
Rivera, Damaso Ramon.....Coamo, Porto Rico
Rosenthal, Arnold William.....Pittsburgh
Scott, Horace Clayton.....Pittsburgh
Sheehan, John Frank.....Wilkes Barre
Sissman, Joel .....Pittsburgh
Skoneski, Michael Francis.....Pittsburgh
Smith, George Aten, Jr.....Pittsburgh
Smith, Fred Riley.....Brilliant, O.
Speedy, Arthur William.....Indiana
Speers, Stephen McClain.....Speers
Stark, Lyda Arthur.....Shinnston, W. Va.
Sutton, Walter Gardner.....Greensburg
Wallace, William Marion.....Ingram
Weiss, William Walter.....Pittsburgh
Willard, Logan Arthur.....Apollo
Wolford, Edgar Wayne.....Sigel

OFFICERS OF THE DENTAL ALUMNI ASSOCIATION

CLINTON L. McCHESNEY, '99	President
P. V. McPARLAND, '04	Vice President
F. CHARLES FRIESELL, '98	Secretary and Treasurer
H. W. HECKEL, '08	Corresponding Secretary

Meeting day preceding Commencement Day, in Amphitheatre of the College.

GRADUATES.

Abraham, Alfred Core, Brownsville, Pa. 1903
Ache, John Byron, Dunbar, Pa. 1906
Acken, R. V., Oneida St., Pittsburgh, Pa. 1909
Ackerson, L. E., Penn Run, Pa. 1899
Alan, H. J., Masonic Block, Greenville, Pa. 1899
Allen, Jos. A., 2033 Center Ave., Pittsburgh, Pa. 1905
Allison, Walter Joseph, Titusville, Pa. 1911
Alter, Chas. H., Arch St., near Sampson, N. S., Pittsburgh, Pa. 1901
Ambrose, P. A., Sharpsburg, Pa. 1899
Amos, Alvin Curtis, Second Ave., Hazelwood, Pittsburgh, Pa. 1907
Anderson, Claude D., Connellsville, Pa. 1904
Anderson, D. F., Carnegie, Pa. 1899
Anderton, Jno. W., Beaver Falls, Pa. 1905
Anthony, Carlton C., Penn and Winebiddle Aves., Pittsburgh, Pa. .. 1906
Arthurs, F. F., Butler, Pa. 1901
Artman, A. J., Leechburg, Pa. 1902
Artman, Marion Allen, Rimersburg, Pa. 1903
Ashcom, D. S., Fulton Bldg., Pittsburgh, Pa. 1905
Ayres, Robert, 404 Simms St., Pittsburgh, Pa. 1908
Bailey, George H., 730 Taylor Ave., Scranton, Pa. 1911
Balsiger, J. H., Butler, Pa. 1905
Balsinger, Harry Ray, Climax & Delmont Sts., Pittsburgh, Pa. 1910
Banbury, Quincy, Pratt, Kansas 1908
Banbury, Winfred F., Kansas 1907
Barchfield, M. J., Girard, Ohio 1899
Barclay, Abram Christie, Highland Bldg., Pittsburgh, Pa. 1903
Bard, Alex. Eugene, Lewis Block, Pittsburgh, Pa. 1903
Barto, Wm. J., 4030 Penn Ave., Pittsburgh, Pa. 1909
Bassett, F. H., Wheeling, W. Va. 1898
Baxter, Aaron Reimer, Patton, Pa. 1907
Baxter, N. J., Greensburg, Pa. 1898
Bayly, G. F., 320 The Holland, Lima, Ohio. 1905
Beatty, Clarence H., Johnstown, Pa. 1904

Beatty, Robert W., Box 18, Saltsburg, Pa. 1904
Bedford, Bruce W., 8 S. Franklin St., Titusville, Pa. 1906
Beebe, Willis H., Mission St., Pittsburgh, Pa. 1906
Bell, Emil F., 7308 Kelly St., Pittsburgh, Pa. 1904
Bender, F. G., Stoystown, Pa. 1905
Benz, Philip B., Jr., 1213 Southern Ave., Carrick, Pa. 1904
Beuchler, Joseph Haworth, 403 E. Ohio St., N. S., Pittsburgh, Pa. .. 1910
Biddle, David Richard, 615 Fawcett Ave., McKeesport, Pa. 1908
Biddle, John Flocker, 517 Arch St., N. S., Pittsburgh, Pa. 1903
Binger, Albert M., 217 Coltart Square, Pittsburgh, Pa. 1911
*Bingham, J. C., Washington, Pa. 1905
Blair, C. R., Latrobe, Pa. 1899
Blair, Ross Boyde, Waynesburg, Pa. 1903
Blumenschein, Carl W., 7217 Kedron Ave., Pittsburgh, Pa. 1907
Blumenthal, A. A., 1007 Wylie Ave., Pittsburgh, Pa. 1907
Boarts, Jos. A., Greensburg, Pa. 1905
Boisseau, Charles H., Smithton, Pa. 1907
Boner, J. C., Falls Creek, Jefferson Co., Pa. 1902
Booth, C. O., 304 Forbes Bldg., Pittsburgh, Pa. 1905
Bowers, A. T., Federal St., N. S., Pittsburgh, Pa. 1897
Bowers, D. T., 421 Atwood St., Pittsburgh, Pa. 1910
Boyd, I. L., Sharpsburg, Pa. 1900
Brace, G. W., Washington, D. C. 1900
Brice, Charles Greenwall, 570 Homewood Ave., Pittsburgh, Pa. ... 1903
Briney, H. Lee, 7047 Hamilton Ave., Pittsburgh, Pa. 1910
Briney, Ross W., 7047 Hamilton Ave., Pittsburgh, Pa. 1910
Brinkman, C. E., 400 Federal St., N. S., Pittsburgh, Pa. 1905
Brinton, Robert S., 286 Pitts St., New Castle, Pa. 1904
Brown, Harry J., South Side, Pittsburgh, Pa. 1898
Brown, W. S., 223 40th St., Pittsburgh, Pa. 1901
Brownfield, Leslie W., First National Bank Bldg., Uniontown, Pa. . 1902
Buchanan, James L., Colorado 1906
Budd, Norman J., 625 Homewood Ave., Pittsburgh, Pa. 1911
Burgoon,, Walter F., Mexico 1907
Butterbaugh, F. C., 6225 Penn Ave., Pittsburgh, Pa. 1902
Butler, Charles V., Pittsburgh, Pa. 1907
Butler, Wm. C., Denver, Colorado 1899
Butler, Raymond B., Herron and Wylie Aves., Pittsburgh, Pa. 1910
Calvert, C. H., 205 E. Ohio St., N. S,. Pittsburgh, Pa. 1900
Campbell, Clyde S., Connellsville, Pa. 1907
Campbell, Edgar W., Worthington, Pa. 1903
Campbell, J. F., Woodlawn, Pa. 1909
Campbell, Harry E., Uniontown, Pa. 1911
Cannon, Walter Furman, Mt. Morris, Pa. 1908
Carpenter, James H., 222 Superior St., New Castle, Pa. 1908
Carroll, C. E., Knoxville, S. S., Pittsburgh, Pa. 1901
Carson, Wm. P., Ambridge, Pa. 1911

*Deceased

Chapman, Ralph B., 76 Melrose Ave., N. S., Pittsburgh, Pa. 1911
Chessrown, J. H., Youngstown, Ohio 1901
Christy, R. R., Reidsburg, Pa. 1901
Church, Clyde P., Clarksburg, W. Va. 1911
Churchill, M. E., Barnesboro, Pa 1902
Clark, Eugene Alfonso, 811 Ann St., Homestead, Pa. 1903
Clark, Walter Scott, Burgettstown, Pa. 1903
Clovis, Ray M., Uniontown, Pa. 1906
Cochran, E. E., Karns City, Pa. 1905
Cochran, I. L., Irwin, Pa. 1901
Cole, W. G., Claysville, Pa. 1905
Coleman, Harry Clifford, Ridgway, Pa. 1903
Conaway, W. B., Bristol, W. Va. 1902
Conn, F. L., Morris Crossroads, Pa. 1900
Connelly, Harry S., Forbes Bldg., Pittsburgh, Pa. 1910
Conrad, John H., Johnstown, Pa. 1906
Conwell, P. C., Blairsville, Pa. 1901
Cook, Frank N., 1008 Fifth Ave., Pittsburgh, Pa. 1899
Copeland, A. G., Tarentum, Pa. 1905
Corr, Thomas F., Pauli Bldg., Scranton, Pa. 1911
Cottom, Joseph R., Railroad St., Dawson, Pa. 1906
Craig, E. M., Duquesne, Pa. 1909
Craig, H. R., South Lorain, Ohio 1905
Craig, R. M., Dennison, Ohio 1900
Cratty, M. G., Butler, Pa. 1905
Crawford, J. H., Jenkins Arcade Bldg., Pittsburgh, Pa. 1905
Crawford, S. M., Kensington, Ohio 1902
Crawford, Clarke R., Tidioute, Pa. 1911
Crawshaw, O. G., Dawson, Pa. 1900
Creery, Clark Leander, Ebensburg, Pa. 1900
Cromwell, Howard E., Somerset, Pa. 1903
Crooks, James B., Imperial, Pa. 1904
Crow, Benjamin K., Point Marioin, Pa. 1904
Crow, F. L., Charleroi, Pa. 1899
Crow, Jesse L., California, Pa. 1900
Cuden, C. S., 1306 Fifth Ave,. Pittsburgh, Pa. 1909
Cunningham, F. W., Zelienople, Pa. 1905
Curtis, H. A., Columbus, Pa. 1909
Currie, Warren John, Bakerstown, Pa. 1903
Dale, G. C., Grove City, Pa. 1900
Davidson, W. E., McKeesport, Pa. 1905
Davidson, Albert E., Weirton, W. Va. 1911
Davis, Claud Melvin 1903
Davis, R. B., Barreforge, Pa. 1905
Deeds, T. A., Pittsburgh Life Bldg., Pittsburgh, Pa. 1902
Dennis, Chas. B., Conneaut Lake, Pa. 1899
DeRoy, A. I., 217 Fifth Ave., Pittsburgh, Pa. 1902
Deterding, F. H., North Ave., Pittsburgh, Pa. 1905

Delozier, E. J., Pitcairn, Pa. 1909
Denholm, Chas. J., 8144 Jenkins Arcade Bldg., Pittsburgh, Pa. 1911
Deucker, Adam, Malakoff St., S. S., Pittsburgh, Pa. 1899
Dewar, Herbert, Elizabeth, Pa. 1911
Dickie, Clark Johnson, Vandergrift, Pa. 1903
Dietrich, A. E., West End Bank Bldg., Pittsburgh, Pa. 1900
Donaldson, E. McB., Glasspoirt, Pa. 1909
Donaldson, Wlliam R., Bulger, Pa. 1904
Dougherty, Frank H., Freeport, Pa. 1906
*Douthett, Scott H. 1902
Dowden, James E., Fairmont, W. Va. 1906
Dreutlien, B. H., Akron, Ohio 1901
Duncan, D. R., 1228 Resaca St., N. S., Pittsburgh, Pa. 1900
Dunn, Wallace Hays, 4200 Penn Ave., Pittsburgh, Pa. 1903
DuVall, Wilbur, E. 1907
Earnest, S. P., M. D., Delmont, Pa. 1898
Earsman, J. S., M. D., 5901 Penn Ave., Pittsburgh, Pa. 1900
Eber, Herman Leonard, 1811 Wylie Ave., Pittsburgh, Pa. 1910
Eckley, H., Cresson, Pa. 1905
Elliott, Claud C., Kittanning, Pa. 1899
Elliott, W. J., Box 711, Turtle Creek, Pa. 1905
Ellis, C. H., 911 Third Ave., New Brighton, Pa. 1902
Ellsworth, W. L., Diamond Bank Bldg., Pittsburgh, Pa. 1911
Emrick, Samuel Dwight, 5905 Penn Ave., Pittsburgh, Pa. 1910
Erbey, W. F., 104 Washington Ave., Pittsburgh, Pa. 1898
Ernst, Paul B., 780 Hazelwood Ave., Pittsburgh, Pa. 1911
Ervin, S. J., 612 Beltzhoover Ave., Pittsburgh, Pa. 1909
Evans, John Jeffreys, Diamond Bank Bldg., Pittsburgh, Pa. 1903
Evans, William C., Brownsville, Pa. 1899
Evans, W. M., 221 Fifth Ave., Pittsburgh, Pa. 1900
Evans, Albert L., Forbes & Atwood Sts., Pittsburgh, Pa. 1911
Farrell, F. F., 5200 Butler St., Pittsburgh, Pa. 1901
*Fausner, Oscar, New York City 1899
Fawcett, D. W., McKeesport, Pa. 1899
Ferren, O. S., Dawson, Pa. 1909
Finney, H. E., New Kensington, Pa. 1901
Firestone, S., 1048 Fifth Ave., Pittsburgh, Pa. 1909
Fish, Clifton C., Erie, Pa. 1911
FitzHugh, John G., Masonic Temple, McKeesport, Pa. 1906
Flint, D. W., Keenan Bldg., Pittsburgh, Pa. 1898
Folsom, F. T., 4200 Butler St., Pittsburgh, Pa. 1909
Foote, A. L., Ph. G., 5003 Liberty Ave., Pittsburgh, Pa. 1898
Ford, W. H., Cambridge Springs, Pa. 1905
Fordyce, James Alfred, Harveys, Pa. 1910
Frampton, Aylett Rains, Wheeling, W. Va. 1903
Frank, Claud Andrew, Oil City, Pa., R. D. Route No. 1 1903
Frank, J. S. W., Braddock, Pa. 1900

*Deceased

Frazier, J. B., 3305 Brighton Road, N. S., Pittsburgh, Pa. 1909
*Frazier, J. W. 1900
Freshwater, M. J., Jeannette, Pa. 1902
Freyer, Emil, Chestnut St., N. S., Pittsburgh, Pa. 1901
Friesell, F. C., 1206 Highland Bldg., Pittsburgh, Pa. 1898
Frye, J. M., Homer City, Pa. 1908
Fulton, J. L., Glenfield, Pa. 1900
Gaffney, Chas. J., Dubois, Pa. 1911
Gallagher, F. A., 152 Taggart St., N. S., Pittsburgh, Pa. 1909
Gallagher, W. H., Braddock, Pa. 1905
Gamble, G. P., McKeesport, Pa. 1899
*Garman, J. Ross, Garman's Mills, Pa. 1904
Gatts, J. F., Fulton Bldg., Pittsburgh, Pa. 1901
Getty, William Edward, Meyersdale, Pa. 1903
Gibson, M. R., Highland Bldg., Pittsburgh, Pa. 1902
Giles, D. G., Warren Ave., Apollo, Pa. 1902
Glenn, Miss M. L., 1408 Fremont St., N. S., Pittsburgh, Pa. 1900
Glotfelty, Webster B., Sharpsburg, Pa. 1903
Goeddel, Oscar Henry, 131 N. Highland Ave., E. E., Pittsburgh, Pa. 1910
Goldman, George P., 114 Erin St., Pittsburgh, Pa. 1911
Goodman, Maurice, New York City, N. Y. 1908
Gould, F. L., Wylie Ave., Pittsburgh, Pa. 1901
Graham, Richard Jos., Ligonier, Pa. 1903
Grant, H. E., Emlenton, Pa. 1902
Grazier, John H., Johnstown, Pa. 1906
Greer, W. J., Stoneboro, Pa. 1905
*Grffiths, D. J., McKeesport, Pa. 1899
Griffiths, Mrs. L. W., 2075 E. 100th St., Cleveland, Ohio 1901
*Griffiths, W. S. 1900
Guckert, C. S., 737 E. Ohio St., N. S., Pittsburgh, Pa. 1902
Guffey, J. R., Forbes and Craft Aves., Pittsburgh, Pa. 1909
Hagan, Clarence W., Frankstown & Oakwood Sts., Wilkinsburg, Pa. 1911
Hague, William Ross, Coraopolis, Pa. 1910
Hampson, Frank Leslie, Claysville, Pa. 1903
Hapgood, Clarence H., Altoona, Pa. 1911
Hartley, H. Tyson, 4245 Dunkeld Place, Pittsburgh, Pa. 1904
Hawkins, Ed. C., Bessemer Bldg., Pittsburgh, Pa. 1899
Hawkins, E. S., 618 Sherman Ave., Pittsburgh, Pa. 1908
Heape, Arthur W., 5100 Penn Ave., Pittsburgh, Pa. 1911
Heath, Edmund P., Fredericktown, Pa. 1906
Heckel, H. W., 300 North Ave., Pittsburgh, Pa. 1908
Held, J. W., Freeport, Pa. 1901
Heminger, J. R., Lavinsville, Pa. 1900
Hendry, Howard M., 713 N. Fourth St., Steubenville, Ohio 1903
Hess, Herbert, Wilkinsburg, Pa. 1902
Heyl, A. W., Evans City, Pa. 1902
Hieber, C. W., 2801 Penn Ave., Pittsburgh, Pa. 1900

*Deceased

Hindman, W. J., Butler, Pa. 1900
Hipple, John S., New Bethlehem, Pa. 1906
Hitchins, J. E., Walnut St., McKeesport, Pa. 1901
Hobaugh, J. R., Wilkinsburg, Pa. 1900
Hoffman, F. H., Jeannette, Pa. 1908
Hogan, T. A., 500 Penn Ave., Pittsburgh, Pa. 1899
*Holland, William Stanley 1903
Hollstein, William A., 7638 Hamilton Ave., Pittsburgh, Pa. 1907
Holmes, J. Mc., 209 Ninth St., Pittsburgh, Pa. 1900
Holroyd, W. J., 1428 Fifth Ave., Pittsburgh, Pa. 1899
Hoover, Reuben Brown, 624 N. Main St., Dayton, Ohio 1910
Horner, Carl S., Connellsville, Pa. 1899
Horner, F. C., Wilkinsburg, Pa. 1909
Horner, R. F., Homestead, Pa. 1901
Horner, Willard C., Pittsburgh, Pa. 1907
Horrocks, G. W., Wilmerding, Pa. 1901
Horvitz, Pauline, 7122 Jenkins Arcade Bldg., Pittsburgh, Pa. 1901
Howard, A. C., Uniontown, Pa. 1901
Howard, H. D., Westinghouse Bldg., Pittsburgh, Pa. 1901
Howard, O. M., Uniontown, Pa. 1908
Hughes, P. B., Brookville, Pa. 1900
Hughes, William G., 6314 Penn Ave., Pittsburgh, Pa. 1899
Hum, H. C., Federal and Isabella, N. S., Pittsburgh, Pa. 1900
Humbert, Wellington Q., Grove City, Pa. 1904
Humphrey, Jesse G., Tidioute, Pa. 1906
*Hunn, F. C., Beaver, Pa. 1898
Hunt, C. W., Harmony, Pa. 1898
Husler, David P., Pittsburgh, Pa. 1907
Huston, Clyde Ramsey, Fayette City, Pa. 1910
Hutchison, D. P., Quebec, Canada 1907
Hysong, J. H., Braddock, Pa. 1902
Imbrie, W. D., Clintonville, Pa. 1901
Ivory, F., 505 Arch St., N. S., Pittsburgh, Pa. 1909
Jackson, William A., Tarentum, Pa. 1903
James, C. C., 20 Arch St., N. S., Pittsburgh, Pa. 1900
Jamison, R. B., Court St., New Castle, Pa. 1901
Jenkins, Benjamin F., Jeannette, Pa. 1906
Johnson, M. P., Pittsburgh Life Bldg., Pittsburgh, Pa. 1901
Johnston, B. B., Frankstown Ave. and Station St., Pittsburgh, Pa. 1909
Jones, C. W., North Warren, Pa. 1908
Jones, J. M., Youngwood, Pa. 1905
Kaiser, Oliver Van G. 1903
Kaltenbaugh, J. A., Diamond Bank Bldg., Pittsburgh, Pa. 1899
Kaminski, J., 131 19th St., Pittsburgh, Pa. 1908
Kelly, Herbert A., Grove City, Pa. 1907
Kelly, Oscar S., Donora, Pa. 1904
Kelly, W. A., Keenan Bldg., Pittsburgh, Pa. 1905

*Deceased

Kennedy, Arthur M., Fayette City, Pa. 1906
Kennedy, O. M., Wylie Ave., Pittsburgh, Pa. 1899
Kensley, G. P., Beaver Falls, Pa. 1908
Kent, W. H., Waynesburg, Pa. 1905
*Kerr, J. E., Manito, Pa. 1901
Kerr, Robert, Bradford, Pa. 1901
King, A. E., Waynesburg, Pa. 1908
King, D. L., Homestead, Pa. 1902
King, E. D., Library St., Braddock, Pa. 1902
King, Ralph C., North Hope, Pa. 1904
King, R. E., Braddock, Pa. 1899
King, R. S., Smithfield St., Pittsburgh, Pa. 1900
King, W. H., Hoover's Run, Pa. 1900
*Kirk, J. B., Smithfield, Ohio 1902
Kison, H. S., Butler, Pa. 1909
Klawuhn, F., Ridgway, Pa. 1908
Klicka, Gottlieb E., Austria 1904
Klicka, R., Chestnut St., N. S., Pittsburgh, Pa. 1908
Kramer, Arthur R., 111 E. Main St., Uniontown, Pa. 1903
Kramer, J. N., ... 1899
Krumpe, Herman E., Frankstown Ave. and Station St., Pgh., Pa. .. 1904
Kusler, G. A., Hawkins Ave., N. S., Pittsburgh, Pa. 1900
Kyle, J. F., Belle Vernon, Pa. 1909
Lake, G. C., Lewis Block, Pittsburgh, Pa. 1901
LaRosa, G., 607 Webster Ave., Pittsburgh, Pa. 1909
Latshaw, Orval G., Parkers Landing, Pa. 1906
Lee, C. O., Fourth and Church Sts., Winston-Salem, N. C. 1905
Leet, Don S., Brushton Ave., Pittsburgh, Pa. 1901
Leffingwell, L. G., Rockwood, Pa. 1901
Lehner, Harry W., 1929 Sidney St., Pittsburgh, Pa. 1904
Leiber, P., 1006 Fifth Ave., Pittsburgh, Pa. 1900
Leidenroth, Curt F., California Ave., N. S., Pittsburgh, Pa. 1906
Leonard, E. L., Meadville, Pa. 1905
Leonhard, Albert F., Penn Ave. and Main St., Pittsburgh, Pa. 1907
LeVier, Frederick R., Manor, Pa. 1906
Lewis, H. E., E. North Ave., N. S., Pittsburgh, Pa. 1907
Limber, William M., Bedford Ave., Pittsburgh, Pa. 1901
Linhart, A. D., Elizabeth, Pa. 1905
Linhart, W. O., Elizabeth, Pa. 1902
Little, B. W., Loretto, Pa. 1908
Little. L. T., 8th and Dickson, Homestead, Pa. 1909
Little, W. A., Cresson, Pa. 1908
Livingston, Clyde A., 1201 Eighth Ave., Altoona, Pa. 1904
Livingston, Paul, Penn and Sheridan, Pittsburgh, Pa. 1905
Lovell, H. C., Bellwood, Pa. 1909
Lurting, A. N., Jr., Mars, Pa. 1907
Lyon, H. D., 29 Butler, Millvale, Pa. 1905

*Deceased

Lytle, W. B., Oakdale, Pa. 1899
Mack, Walter G., Youngwood, Pa. 1906
Magill, Frank H., Washington, Pa. 1904
Maier, L. G., 1511 Juniata St., N. S., Pittsburgh, Pa. 1902
Manon, Charles E., Amity, Pa. 1910
Marcus, Clara E., 1641 Fifth Ave., Pittsburgh, Pa. 1908
Marquis, L. V., Aspinwall, Pa. 1899
Martin, Andrew M., Moreland Block, Penn Ave., Pittsburgh, Pa. 1907
Martin, Job Russell, Perryopolis, Pa. 1903
Masters, E. G., Turtle Creek, Pa. 1905
Masters, F. R., Wilmerding, Pa. 1902
Matlack, W. E., Steubenville, Ohio 1900
Meals, H. G., Beaver Ave., N. S., Pittsburgh, Pa. 1900
Mellon, F. R., Patton, Pa. 1905
Mendel, W. E., 405 Ohio St., N. S., Pittsburgh, Pa. 1905
Meredeth, M. R., Monongahela, Pa. 1899
Mertz, C. N., Bellaire, Ohio 1901
*Mertz, Earl W. 1901
Meyer, G. G., 2002 Noble St., Swissvale, Pa. 1905
Meyers, Samuel I., 1403-5th Ave., Pittsburgh, Pa. 1911
Middaugh, Benjamin F., Dennison, Ohio 1903
Miller, Chas. E., Butler, Pa. 1911
Miller, B. T., Cochranton, Pa. 1908
Miller, Earl G., Carmichaels, Pa. 1904
Miller, George V., Box 107, Irwin, Pa. 1904
Miller, Harry B., Chester, W. Va. 1907
Miller, J. A., Pennsboro, W. Va. 1905
Mller, Joseph R., Carnegie, Pa. 1903
Miller, J. W., 2604 Perrysville Ave., N. S., Pittsburgh, Pa. 1905
Miller, W. M., Wellsburg, W. Va. 1901
Minium, W. H., 226 Willow St., Meadville, Pa. 1908
Minton, Robert Adams, Washington, Pa. 1903
Mohney, B. T., Rimersburg, Pa. 1902
Mohr, George Frederic, Freedom, Pa. 1903
Moore, J. H. 1902
Moore, L. B., 6200 Penn Ave., Pittsburgh, Pa. 1909
Moore, W. D., Crafton, Pa. 1899
Moran, J. M., Majorsville, W. Va. 1909
Moroney, R. J., McDonald, Pa. 1908
Morrison, R. E., Imperial, Pa. 1900
Morrow, N. L., Carl Bldg., Wilkinsburg, Pa. 1908
Myers, H. H., Fulton Bldg., Pittsburgh, Pa. 1900
Myers, P. N., 902 Western Ave., N. S., Pittsburgh, Pa. 1901
Myers, W. E., 4771 Liberty Ave., Pittsburgh, Pa. 1909
McAlpin, John V., Bradford, Pa. 1904
McAlpin, Kenneth N., Butler, Pa. 1906
McAlpin, V. H., Butler, Pa. 1902

*Deceased

McCaig, John J., 4 Pride St., Pittsburgh, Pa. 1911
McCampbell, J. H. R., 401 Bessemer Bldg., Pittsburgh, Pa. 1909
McCandless, H. A., Butler, Pa. 1902
McChesney, C. L., 16 Washington Ave., Pittsburgh, Pa. 1899
McClelland, G. A., 1005 South Ave., Wilkinsburg, Pa. 1908
McClintock, T. C., Portland, Oregon 1908
McClymonds, John M., Slippery Rock, Pa. 1903
McConnell, J. W., McKeesport, Pa. 1901
McConnell, T. C., Elizabeth, Pa. 1900
McCord, C. S., Seattle, Wash. 1905
McCready, William A., Highland Bldg., Pittsburgh, Pa. 1903
McCue, I. C., Johnstown, Pa. 1905
McCue, John M., Crafton, Pa. 1904
McCullough, A. W., Diamond Bank Bldg., Pittsburgh, Pa. 1902
McCullough, Raymond, 225 S. Main St., Pittsburgh, Pa. 1903
McCune, H. T., Bradock, Pa. 1898
McDonnell, John J., Throop, Pa. 1911
McFarland, G. L., Sharpsburg, Pa. 1897
McGill, C. V., Perrysville Ave., N. S., Pittsburgh, Pa. 1900
McGovern, C. L., 1826 Forbes St., Pittsburgh, Pa. 1901
McKean, G. W., Hong Kong, China 1899
McKee, J. W., Worthington, Pa. 1899
McKee, William B., Homestead, Pa. 1906
McKelvey, C. V., Federal St., N. S., Pittsburgh, Pa. 1905
McKeown, Edward I., 400 Fourth Ave., Homestead, Pa. 1903
McMillen, F. B., Fulton Bldg., Pittsburgh, Pa. 1900
McNaughton, J., Charleroi, Pa. 1905
McNeely, John H., Windridge, Pa. 1911
McParland, Patrick V., Highland Bldg., Pittsburgh, Pa. 1904
McParland, Felix Joseph, 937-3rd Ave., Huntington, W. Va. 1910
McQuillan, Wm. P., 6506 Frankstown Ave., Pittsburgh, Pa. 1911
Nathaniel, B., Market St., N. S., Pittsburgh, Pa. 1901
Neal, Max, 118 Lorenz Ave., W. E., Pittsburgh, Pa. 1909
Neely, Oliver C., Jr., Leechburg, Pa. 1911
Neill, Clyde H., New Cumberland, W. Va. 1907
Nelson, J. R., Bessemer Bldg., Pittsburgh, Pa. 1902
Neiman, Pauline, 2009 5th Ave., Pittsburgh, Pa. 1909
Newmyer, John W., Irwin, Pa. 1904
O'Hara, Charles W., Swissvale, Pa. 1904
Ohl, L. W., 6200 Penn Ave., Pittsburgh, Pa. 1911
Old, Robert J., Federal St., N. S., Pittsburgh, Pa. 1898
O'Neil, P. G., Jenkins Arcade, Pittsburgh, Pa. 1900
Orr, I. D., West Newton, Pa. 1899
Orwig, D. E., McDonald, Pa. 1900
Orwig, Herbert S., Wilkinsburg, Pa. 1903
Otto, G. F., Wheeling, W. Va. 1898
Overberger, B. J., Patton, Pa. 1911
Owens, S. T., 439 Liberty Ave., Pittsburgh, Pa. 1900

Park, E. H., Marion Center, Pa. 1905
Parks, James Bratton, Leechburg, Pa. 1903
Patton, Isabelle B., Wilkinsburg, Pa. 1904
Paugh, Worth, Phillippi, W. Va. 1903
Peacock, Robt. J., Houston, Pa. 1911
Pearce, Reese B., Saltsburg, Pa. 1906
Pears, J. S., Elizabeth, Pa. 1900
Pennington, J. A., Fulton Bldg., Pittsburgh, Pa. 1902
Pershing, I. Robert, 218 Alex St., Greensburg, Pa. 1904
Peters, Charles E., Jenkins' Arcade, Pittsburgh, Pa. 1899
Petrie, Charles Edward, McKees, Pa. 1903
Phillips, Eli C., Belle Vernon, Pa. 1903
Phillips, J. B., McKees Rocks, Pa. 1902
Phillips, T. A., Canal Dover, Ohio. 1899
Pidgeon, A. H., Houtzdale, Pa. 1899
Pisor, M. O., North Hope, Pa. 1905
Post, David C., Dunn's Station, Pa. 1911
Potter, T. F., Beaver Falls, Pa. 1901
Proven, J. R., McKees Rocks, Pa. 1902
Puhl, Claude W., 815 Federal St., N. S., Pttsburgh, Pa. 1908
Quinn, J. P., Federal St., N. S., Pittsburgh, Pa. 1900
Ralston, S. B., Bellevue, Pa. 1908
Ralston, S. H., Avalon, Pa. 1899
Ramsey, Arthur G., 414 Sixth Ave., Pittsburgh, Pa. 1904
Ramsey, D. S., 414 Sixth Ave., Pittsburgh, Pa. 1900
Reader, Henry Wilfred, Rochester, Pa. 1903
Reamer, H. B., 6200 Penn Ave., Pittsburgh, Pa. 1898
Redmond, Henry H., New Castle, Pa. 1897
Reed, M. L., Coal Valley, Pa. 1900
Renne, Wm. A., 1831 Carson St., Pittsburgh, Pa. 1911
Reichenbach, Albert, McKeesport, Pa. 1902
Reighner, George Wallace, 11 W. 10th St., Erie, Pa. 1910
Reith, Chas. A., 1004 Homewood Ave., Pittsburgh, Pa. 1907
Rhodes, Alvin D., 1612 Fifth Ave., McKeesport, Pa. 1907
Rial, B. P., Fifth Ave. and Craig St., Pittsburgh, Pa. 1900
Ridenour, Chas. H., Rockwood, Pa. 1911
Ries, A. J., Uhrichsville, Ohio 1900
Rinard, A. G., Breezewood, Pa. 1908
*Rinehart, C. C., Ford City, Pa. 1899
Ritchie, Walter, La Junta, Col. 1907
Roberts, E. R., Diamond Bank Bldg., Pittsburgh, Pa. 1909
Robin, Morris H., Braddock, Pa. 1911
Robinson, F. C., Uniontown, Pa. 1902
Robison, Edward M., Los Angeles, Calif. 1907
Robison, F. A., State College, Pa. 1900
Robison, G. T., Windber, Pa. 1904
Robison, John Benjamin, Sheridan, Pa. 1903

*Deceased

Robison, William Robert, Beallsville, Pa. 1910
Rodenbaugh, J. W., Perrysville Ave., N. S., Pittsburgh, Pa. 1900
Roe, Homer Carroll, 1216 Monterey St., N. S., Pittsburgh, Pa. 1910
Roland, C. M., McKees Rocks, Pa. 1905
Roll, G. C., 1400 Beaver Ave., N. S., Pittsburgh, Pa. 1900
Roney, J. E., West Alexandria, Pa. 1899
Rowe, Pearl Evans..... 1903
Roy, R. C., 4801 Liberty Ave., Pittsburgh, Pa..... 1902
Rumbaugh, R. D., 208 Empire Bldg., Clarksburg, W. Va..... 1909
Ryland, W. H., Grantsville, Md..... 1900
Sander, F. E., Fulton Bldg., Pittsburgh, Pa..... 1905
Sapper, Benjamin M., 506 Locust St., McKeesport, Pa..... 1910
Schade, F. A., Sixth and Penn, Pittsburgh, Pa..... 1899
Schlag, Orlo, C., 4813 Second Ave., Pittsburgh, Pa..... 1906
Schlag, P. V., Greensburg, Pa..... 1900
Schlag, Stanley S., Somerset, Pa..... 1907
Schoaf, Ira B., West Newton, Pa..... 1904
Schusler, P. J., 216 Shady Ave., Pittsburgh, Pa..... 1900
Schwartz, Harry Marcus, 99 Roberts St., Pittsburgh, Pa..... 1910
Scott, J. B., Carbon Black, Pa..... 1905
Scott, J. K., 4018 Penn Ave., Pittsburgh, Pa..... 1899
Scott, James Polk, Dunbar, Pa..... 1903
Sedwick, J. D., Kittanning, Pa..... 1909
Seegman, H., 2241 Fifth Ave., Pittsburgh, Pa..... 1905
Seit, H. A., Patton, Pa..... 1899
Severin, J. J., Carrolltown, Pa..... 1908
Shade, G. F., 5117 Keystone St., Pittsburgh, Pa..... 1902
Shaffer, J. P., Boswell, Pa..... 1900
Shaulis, E. F., Somerset, Pa..... 1905
Sheffler, Samuel S., Greensburg, Pa..... 1911
Shoemaker, Edward C., Tyrone, Pa..... 1904
Shull, Luther E., 227 S. Morgan St., Waynesburg, Pa..... 1906
Shumaker, C. S., Pomeroy, Ohio..... 1905
Simeral, R. F., Bellevue, Pa..... 1900
Simpson, C. A., Westinghouse Bldg., Pittsburgh, Pa..... 1899
Sleppy, Reynolds M., 1915 Beaver Ave., N. S., Pittsburgh, Pa..... 1904
Sleeth, P. N., May Bldg., Pittsburgh, Pa..... 1909
Sloan, J. H., East Liverpool, Ohio..... 1897
Smalley, Edw. L., 304 Second St., Plainfield, N. J..... 1904
Smiley, Edgar W., New Cumberland, W. Va..... 1907
Smith, Charles S., Pleasant Unity, Pa..... 1904
Smith, Howard Russell, 17 W. Chestnut St., Washington, Pa..... 1903
Smith, H. S., 318 Atlantic Ave., McKeesport, Pa..... 1905
Smith, J. T., Federal St., N. S., Pittsburgh, Pa..... 1899
Smith, Thomas H., Bloomington, Ill..... 1906
Snyder, N. H., Export, Pa..... 1897
Sommers, Hilmer Florence, 1005 Wylie Ave., Pittsburgh, Pa..... 1910
Sorber, O. M., 1352 Pitt St., Wilkinsburg, Pa..... 1898

South, W. H., Washington and Fremont, N. S., Pittsburgh, Pa..... 1899
Stauffer, Sarah C. E., Lindsay, Pa..... 1903
Steen, Earl H., Belle Vernon, Pa..... 1904
Stern, J. A., Portland, Oregon..... 1908
Stevenson, Harold C., Tennessee..... 1906
Stewart, G. L., Rural Valley, Pa..... 1899
Stewart, Robert J., Chronicle Telegraph Bldg., Pittsburgh, Pa..... 1903
Stewart, William R., Saltsburg, Pa..... 1903
Stilley, A. M., Hope Church, Pa..... 1901
Stone, P. R., Ben Avon, Pa..... 1905
Strasser, J. E., Pasadena, California..... 1900
Straub, Theodore, Stoyestown, Pa..... 1910
Stroup, W. H., Federal and North Ave., N. S., Pittsburgh, Pa..... 1905
Sturgeon, James G., Imperial, Pa..... 1908
Sugden, J. M., Pittsburgh, Pa..... 1902
Sutton, Arthur, Box 548, Pt. Marion, Pa..... 1911
Sullivan, J. C., Penn Ave., Pittsburgh, Pa..... 1908
Swartz, E. B., Forbes and Atwood, Pittsburgh, Pa..... 1901
Sweeney, W. J., 613 Highland Bldg., Pittsburgh, Pa..... 1909
Taggart, Sue L., Pittsburgh, Pa..... 1902
Tannehill, R. C., Turtle Creek, Pa..... 1905
Taylor, W. P., Monongahela City, Pa..... 1904
Thomas, Charles W., Rochester, Pa..... 1899
Thomas, J. O., Lorain, Ohio..... 1909
Thomas, W. J., Saxton, Pa..... 1911
Thompson, W. C., 4800 Liberty Ave., Pittsburgh, Pa..... 1902
Throckmorton, W. L., Nineveh, Pa..... 1898
Titzel, J. R., Greenville, Pa..... 1899
Todd, I. H., Monaca, Pa..... 1900
Toy, R. L., Arch St., N. S., Pittsburgh, Pa..... 1900
Urling, G. A., Jr., Pittsburgh, Pa..... 1899
Van Kirk, Albert C., Bellevue, Pa..... 1911
Vogel, Clyde St. Clair, Sheridanville, Pa..... 1903
Waddill, Leslie, Jenkins Arcade Bldg., Pittsburgh, Pa..... 1907
Waelde, Frank Frederic, 560 Lord St., Meadville, Pa..... 1910
Waldron, F. W., 244 W. Jefferson St., Butler, Pa..... 1908
Walker, J. W., 6200 Penn Ave., Pittsburgh, Pa..... 1902
Walsh, Richard Aloys, Crafton, Pa..... 1903
Walthour, W. J., McKees Rocks, Pa..... 1899
Warren, D. H., 612 Chestnut St., N. S., Pittsburgh, Pa..... 1902
Washabaugh, R. N., Mt. Washington, Pittsburgh, Pa..... 1900
Watterson, W. R., Fulton Bldg., Pittsburgh, Pa..... 1898
Waugaman, E. A., Bellevue, Pa..... 1899
Wedell, W. S., McKeesport, Pa..... 1901
Wehrle, G. C., Altoona, Pa..... 1905
Wehrle, Herbert A., 1814 Sixth Ave., Altoona, Pa..... 1903
Wells, J. B., Bristoria, Greene Co., Pa..... 1900

*Wells, J. O., Jr..... 1901
Wells, J. S., New Brighton, Pa..... 1900
Wells, S. S., Zanesville, Ohio..... 1905
Welsh, H. J., Ingram, Pa..... 1905
Welsh, Katherine C., 2414 Carson St., S. S., Pittsburgh, Pa..... 1903
Wenrick, E. E., 908 Ross Ave., Wilkinsburg, Pa..... 1906
Werts, Henry C., 1007 Sixth Ave., Beaver Falls, Pa..... 1904
White, Harry, Greensburg, Pa..... 1901
Whitehead, C. E., Bellevue, Pa..... 1899
*Wick, J. G., Butler, Pa..... 1909
Wick, W. H., Butler, Pa..... 1898
Wiegering, W. P., Youngstown, Ohio..... 1902
Wilhelm, E. A., Clarion, Pa..... 1899
Williams, D. N., 618 Homewood Ave., Pittsburgh, Pa..... 1899
Williams, George T., Seattle, Wash..... 1903
Wilson, F. B., 5121 Butler St., Pittsburgh, Pa..... 1901
Wilson, F. H., Tarentum, Pa..... 1902
Wilson, J. E., 344 Hemlock St., N. S., Pittsburgh, Pa..... 1900
Wine, Charles Henry, 126 Beltzhoover Ave., Pittsburgh, Pa..... 1910
Wise, Albert I., Wylie Avenue, Pittsburgh, Pa..... 1905
Wolford, W. C., Kittanning, Pa..... 1901
Woods, J. Y., Connellsville, Pa..... 1901
Workman, Harry Trotter, Jenkins Arcade Bldg., Pittsburgh, Pa... 1910
Wright, B. E., Warren, Pa..... 1899
Yohe, E. L., Monongahela, Pa..... 1899
Young, Charles, 139 S. 19th St., Pittsburgh, Pa..... 1908
Zugsmith, Robert, Jenkins Arcade Bldg., Pittsburgh, Pa..... 1903

*Deceased.

For errors in address please notify Dean.

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